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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 10/797,257 03/10/2004 Xavier Billot MC080Y 5365 **EXAMINER** 210 09/09/2005 7590 MERCK AND CO., INC HABTE, KAHSAY P O BOX 2000 ART UNIT PAPER NUMBER RAHWAY, NJ 07065-0907

1624
DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

W /			
Office Action Summary	Application No.	Applicant(s)	
	10/797,257	BILLOT ET AL.	
	Examiner	Art Unit	
	Kahsay Habte, Ph. D.	1624	
The MAILING DATE of this communicati	ion appears on the cover sheet wi	h the correspondence address	
Period for Reply A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communical. If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNIC CFR 1.136(a). In no event, however, may a relation. y period will apply and will expire SIX (6) MON by statute, cause the application to become AB	CATION. Seply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 3) Since this application is in condition for a closed in accordance with the practice unit of the condition is accordance. 	☑ This action is non-final. allowance except for formal matt		s
Disposition of Claims			
4) ☐ Claim(s) 1-6 and 8-17 is/are pending in 4a) Of the above claim(s) 4 and 9-17 is/a 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3,5 and 8 is/are rejected. 7) ☐ Claim(s) 6 is/are objected to. 8) ☐ Claim(s) are subject to restriction	are withdrawn from consideration		
Application Papers			
9) The specification is objected to by the Ex 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	accepted or b) objected to to the drawing(s) be held in abeyar correction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(c	d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for to a) All b) Some * c) None of: 1. Certified copies of the priority doces. 2. Certified copies of the priority doces. 3. Copies of the certified copies of the application from the International. * See the attached detailed Office action for	cuments have been received. cuments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-53) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 6/13/04/8-10/14/04.	948) Paper No(s	ummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

1. Claims 1-6 and 8-17 are pending in this application.

Election/Restriction

2. Applicant's election with traverse of Group II, Claims 1-3, 5-6 and 8 in a paper filed 8/31/2005 is acknowledged. The traversal is on the ground(s) that the "present invention is closely related in structure and use as agonist of EP₄ receptor. Although the variation exists in the X and Y substituents of the piperidino groups, the hetero groups are all drawn to the compounds of EP4 agonists and can be used to treat a subject suffering from ocular diseases such as glaucoma and ocular hypertension." Applicants also argue that the coexamination of the additional groups would not require an additional burden of search. This is not found persuasive because Groups I and III-VI do not belong to the same recognized class of chemical compounds in the art, and references anticipating one invention, would not render obvious the others. Separate searches in the literature as well as in the U.S. Patent Classification System would be required. Each group's compounds are made and used independently of each other and could support separate patents. The compounds differ significantly in chemical structures. One skilled in the art would not consider such diverse structure equivalents of each other. Note that restriction is proper if two or more claimed inventions are either independent or distinct. see MPEP 803. Furthermore coexamination of each of the additional groups would require search of subclasses unnecessary for the examination of the elected claims. For example, the search for the invention of Group I Application/Control Number: 10/797,257 Page 3

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would include search of subclass 544/54, the search for the invention of Group III would include search of subclass 546/243, the search for the invention of Group IV would include search of subclass 544/59 and the search for the invention of Group V would include search of various subclasses in class 514. Therefore, coexamination of each of these additional inventions would require a serious additional burden of search.

The requirement is still deemed proper and is therefore made FINAL.

3. The claims are drawn to multiple inventions for reasons set forth in the restriction requirement. The claims are examined only to the extent that they read on the elected invention. Cancellation of the non-elected subject matter is recommended in response to this Office Action.

Objection

4. Note that claim 6 is objected to because it contains non-elected species, but would be allowable if the non-elected species are deleted.

Claim Objections

5. Claim 1 is objected to because of the following informalities: the term "Ch=CH" is a typographical error. It should read as "CH=CH".

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Information Disclosure Statement

6. Applicant's Information Disclosure Statement, filed on 6/13/2005 and 10/14/2004 has been acknowledged. Please refer to Applicant's copies of the 1449 submitted herewith.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 5 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:

- a. Claim 1 and claims dependent thereon are rejected because the phrase "Z represents a triple bond" is not clear. What triple bond? Is this C to C triple bond? Is this C to N triple bond? If applicants intend C to C triple bond, they have to draw or name the triple bond as it was done for C to C double bond (i.e. Z = CH=CH).
- b. In claim 1, the phrase "Q isC(halo)₂ said cycloalkyl" is not clear. Is this a typo? There should be comma to separate "C(halo)₂" from "said cycloalkyl".

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c. In claim 1, the phrase "R¹ represents.....(CH₂)_p-hydroxymethylketone" is not clear. What is "hydroxymethylketone"? What is the structure of "hydroxymethylketone"? Ketone (RCO-R) is a molecule and not a moiety.

d. In claim 1, the phrase "Ra further represents for aryls and heterocyclyl" is not clear. How can Ra represent an aryl or heterocyclyl? What is the relation of Ra to "aryls" or heterocyclyl?

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (571) 272-0667. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Wilson can be reached at (571) 272-0661. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Kahsay Habte, Ph. D.

Patent Examiner Art Unit 1624

KH

September 7, 2005